

L2 Switch Datasheet

POE Available

3C-PSE0424GM

4 GE SFP Slots+ 24 * 10/100/1000



L2 Managed Ethernet Switch

Overview

3C-S0424PGM is a new generation Power over Ethernet Managed Industrial switch with 24-Port 10/100/1000Base-TX and 4-Port 100/1000Base-FX Fast SFP that provide stable and reliable Ethernet transmission offered by 3C-LINK, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The industrial switch complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

With dual power input design, 3C-S0424PGM can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at standard operating temperature range -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Features

- 24x10/100/1000Base-TX RJ45 ports, 4x100/1000Base-FX Fast SFP ports, 24xPoE
- Support Auto-MDIX, and full/half duplex self-negotiation mode
- Provide SFP interface fiber port, support single/dual fiber transmission
- Support 10K bytes giant frame, compatible with various extension protocol
- 8K MAC address table
- Support IEEE802.3az energy efficient Ethernet technology
- Support IPv6 Protocol
- Electric 8KV surge protection, easy to use in outdoor environment
- Complete status indicator, working state at a glance
- Power input polarity protection design, no worry about wrong operation
- Metal case, no fan design
- Installation method: DIN rail /Wall mounting

Specification

Physical Port

RJ45 port and speed	24x10/100/1000Base-TX/4COB 10/100/1000Base-TX
Fiber port and speed	4x100/1000Base-FX SFP

Parameters

Ethernet standards	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az IEEE802.3ah IEEE802.1X IEEE802.1Q
Packet buffer	4Mbits
Maximum packet length	Up to 10KBytes
MAC address table	8K
Transmission mode	Store and Forward(full/half duplex mode)
Exchange property	Delay time: < 7μs Backplane bandwidth: 56Gbps Packet forwarding rate: 1488100 (64Byte)

PoE

PoE standard	24x IEEE 802.3af /IEEE 802.3at PoE
Power budget	Max. PoE output power budget 30W

LED Indicator

Power	Connect-always
RJ45	Link/SPD: connect-always; data exchange-twinkle Speed light: 100Mbps-always; 10Mbps-twinkle
Fiber	Link/Act: connect-always; data exchange-twinkle
RUN	System running light
ALM	System alarm

Power Information

Power access mode	Phoenix terminal, DC seat
Redundant power input	DC 48-56V
Overload protection	Yes
Power reverse	Support
Power consumption	Full-load<15W

Physical Property

Protection grade	IP40 aluminum case
Cooling mode	Natural cooling, no fan design
Dimensions	440mm x 310mm x 44mm (L x W x H)
Installation mode	DIN rail/wall-mountable
Weight	3000g

Working Environment

Operating Temperature	-40℃~75℃
Operating Humidity	5%~90% non-condensing
Storage	-40℃~85℃

Warranty

MTBF	500,000 hours
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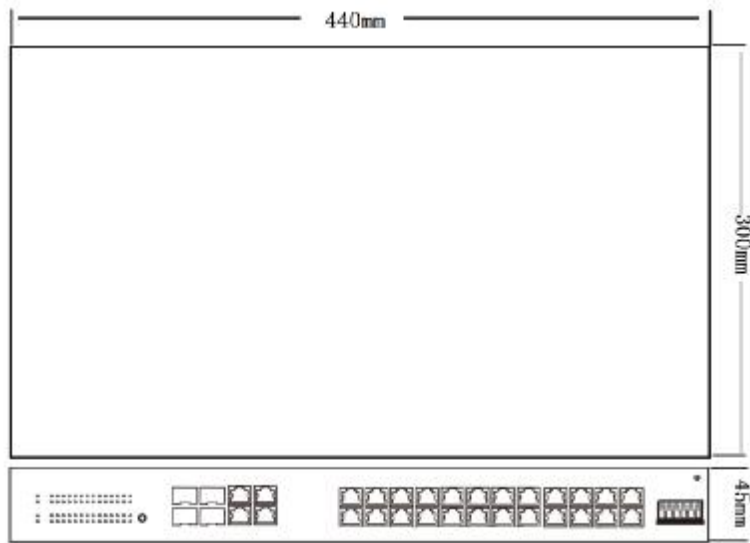
Defects Liability Period	3 year warranty, lifetime technical support
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Certification Standard

EMI	FCC Part15 Subpart B Class A, EN 55022 Class A
EMS	EN61000-4-2(ESD), EN61000-4-3(RS), EN61000-4-4(EFT), EN61000-4-5(Surge), EN61000-4-6(CS), EN61000-4-8, EN61000-4-11
Collision	IEC60068-2-27
Drop	IEC60068-2-32
Vibration	IEC60068-2-6
Safety grade	EN60950-1

Software Features	Redundant network: STP, RSTP, MSTP, IT-T G.8032 Ethernet Ring Protection Switching (ERPS) for redundant cabling ERPS/ Ring for Redundant Cabling, recovery time < 20ms in 250 devices
	Multicast: IGMP Snooping V1/V2/V3
	VLAN: IEEE 802.1Q4K VLAN, GVRP, GMRP, QinQ
	Link Aggregation: Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
	QOS: COS, DSCP, 8 queues, WRR/SP/WFQ scheduling, QOS Policy
	Management Function: CLI, Web based management, SNMP v1/v2c/v3, Telnet/SSH server for management
	Diagnostic Maintenance: Port mirroring, Ping
	Alarm management: 1 way relay alarm output, RMON, SNMP Trap
	RMON, MIBII, Port mirroring, Event syslog, DNS, STMP, IEEE 802.1ab LLDP
	Security: DHCP Server/Client/Relay option 82/Snooping User hierarchical management
	Flexibility security: Port based and MAC based IEEE 802.1X, ACL, HTTP/HTTPS, SSL/SSH v2
	Data control Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control.
	Broadcast storm suppression, Un known-Multicast suppression and Unknown-Unicast suppression
Software upgrade via HTTP, redundant firmware to avoid upgrade failure	

Dimension



Package List

- 1 x Fiber Switch
- 1 x Rail Mounting Kit
- 1 x Wall Mount Kit
- 1 x Warranty Card

Order Information

MODEL NUMBER	PORT DESCRIPTION
3C-S0424GM	Gigabit Central Ethernet Switch,managed,24x10/100/1000Base-TX + 4x100/1000Base-FX SFP
3C-PSE0424GM	Gigabit Central Ethernet PoE Switch,managed,24x10/100/1000Base-TX + 4x100/1000Base-FX SFP / 24xPoE



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